

## Abstract

A method for making a number (N) of samples react under the same reaction conditions, wherein the samples have a solution where the phase state of a reaction solvent changes in a reversible manner between a two-phase solution state and a uniform solution state when the temperature fluctuates over or under a certain constant temperature, and the processes are carried out sequentially in the following steps: (A) the constant container heating step of heating a number of reaction containers simultaneously and maintaining the reaction containers at a predetermined temperature; (B) the sample heating step of putting a sample in each heated reaction container and of maintaining a two-phase solution at a predetermined temperature; (C) the reaction step of stirring the sample that has been heated to the predetermined temperature so as to gain a uniform solution, which is maintained for a predetermined period of time; (D) the cooling step of cooling the uniform solution without cooling the reaction container after the predetermined period of time has passed so as to gain a two-phase solution within the reaction container.

According to the present invention, a method for making a two phase solution of which the phase state changes through temperature conversion react through a number of processes, wherein a chemical process can be carried out on a number of samples under the same conditions in one process apparatus, as well as an apparatus for implementing this can be provided.